

SPIRAL GROOVE STRUCTURE FOR SPIRAL SEAL

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Abstract

PROBLEM TO BE SOLVED: To form a spiral groove easily with accuracy and make each winding pitch of a spiral spring adjustable so as to eliminate a clearance generated by friction between the spiral groove and a spiral seal.

SOLUTION: In this spiral groove structure for a spiral seal, a shaft member 2 is mounted in a cylindrical member 1, and a spiral groove 13 is provided between both members 1, 2. A spiral seal 4 is inserted in the spiral groove 13, and pumping action, flow control, motor action, and the like are performed by relative rotation, axial movement, or the like between the cylinder member 1 and the shaft member 2. In this case, a spiral spring 3 is press-fixed to the outer periphery of the shaft member 2 or the inner periphery of the cylindrical member 1 so as to form the spiral groove 13 between respective winding.

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